ABSTRACT

A method for negotiating the bandwidth of data communication channel automatically comprises that both of the network elements implement the first default configuration respectively and form the DCC channel based on the same order after the two network elements are connected via the optical fiber; the transmitting part of the DCC channel informs the receiving part of the DCC channel the DCC channel negotiation data using the default DCC channel; the receiving part compares the overhead bytes available to itself with the received DCC channel negotiation data after receiving it, and the obtained intersection set is the overhead bytes set available to both of the network elements forming the DCC channel, and these overhead bytes are used to implement the second DCC channel configuration; both of the network elements transmit the DCC channel link command to the other element using the new DCC channel; the network element transmits the DCC channel link confirm command to the other element after receiving the DCC channel link command; the DCC channel is established after receiving the DCC channel confirm command.